

New Claims:

Please add new claims 44-70 as follows:

12 44. (New) An isolated adrenomedullin peptide selected from the group consisting of PO70 (SEQ ID NO: 1), PO71 (SEQ ID NO: 2) and PO72 (SEQ ID NO: 3) .

NE 18 45. (New) An antibody reactive with at least one of the peptides of claim 44.

19 46. (New) Use of the antibody of claim 45 in the treatment of a patient suffering from a cancer or tumor, comprising contacting cancer or tumor cells with an amount of said antibody effective to prevent or treat the cancer or tumor.

20 47. (New) Use according to claim 46 wherein the cancer or tumor cells are selected from the group consisting of adrenal, nervous system, lung, colon, ovarian, prostate, chondrosarcoma, pancreas, or breast.

21 48. (New) A method for diagnosing or monitoring a disease other than hypotension, hypertension or cardiac incompetence, comprising measuring the levels of adrenomedullin in a sample, wherein the presence or absence of adrenomedullin indicates the existence of, or predisposition to, the disease.

22 49. (New) The method of claim 48, wherein the disease is diabetes, renal disease, bone disease, skin disease, or hematopoietic cell disease.

23 50. (New) Use of the adrenomedullin peptides of claim 44 or antibodies reactive therewith for the treatment of a patient suffering from type II diabetes, comprising providing to the patient an amount of said peptides

or antibodies effective to regulate insulin secretion and blood glucose metabolism.

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(New) Use of the adrenomedullin peptides of claim 44 or antibodies reactive therewith for use in diagnosing or treating women for conditions related to pregnancy.

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(New) Use according to claim 51 wherein the condition is preeclampsia or fetal growth.

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(New) Use of the adrenomedullin peptides of claim 44 or antibodies reactive therewith for use in regulating neuronal activity in areas of the central nervous system, comprising administering to a subject said peptides or antibodies in an amount effective to regulate neurotransmission or neuron growth.

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(New) Use of the adrenomedullin antibody of claim 45 for regulating, lessening, or inhibiting an allergic or inflammatory response due to the degranulation of mast cells or involvement of immune response cells, comprising administering said antibodies in an amount effective to lessen or inhibit the degranulation of mast cells.

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(New) Use of the adrenomedullin peptides of claim 44 or antibodies reactive therewith for treating bacterial or fungal infections, comprising administering to a subject said peptides or antibodies in an amount effective to inhibit or prevent bacterial or fungal growth.

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(New) Use of the adrenomedullin peptides of claim 44 for facilitating the repair or healing of chafed skin, skin lesions, wounds, and surgical incisions, comprising

applying said adrenomedullin peptides to the surface of the skin of a subject in an amount effective to facilitate the repair or healing.

29 57. (New) Use of the adrenomedullin peptides of claim 44 or antibodies reactive therewith in promoting organ and bone development.

31 58. (New) A pharmaceutical composition comprising the adrenomedullin peptides of claim 44.

32 59. (New) A pharmaceutical composition comprising the adrenomedullin antibodies of claim 45.

NE 33 60. (New) Use of isolated adrenomedullin peptide PAMP-20 (SEQ ID NO: 7) or antibodies reactive therewith for the treatment of a patient suffering from a cancer or tumor, comprising contacting cancer or tumor cells with an amount of said peptide or antibodies effective to prevent or treat the cancer or tumor.

34 61. (New) Use according to claim 60 wherein the cancerous cells are selected from the group consisting of adrenal, nervous system, lung, colon, ovarian, prostate, chondrosarcoma, pancreas, or breast.

35 62. (New) Use of isolated adrenomedullin peptide PAMP-20 (SEQ ID NO: 7) or antibodies reactive therewith for the treatment of a patient suffering from type II diabetes, comprising providing to the patient an amount of said peptides or antibodies effective to regulate insulin secretion and blood glucose metabolism.

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63. (New) Use of isolated adrenomedullin peptide PAMP-20 (SEQ ID NO: 7) or antibodies reactive therewith in diagnosing or treating women for conditions related to pregnancy.

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64. (New) Use according to claim 63 wherein the condition is preeclampsia or fetal growth.

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65. (New) Use of isolated adrenomedullin peptide PAMP-20 (SEQ ID NO: 7) or antibodies reactive therewith for regulating neuronal activity in areas of the central nervous system, comprising administering to a subject said peptide or antibodies in an amount effective to regulate neurotransmission or neuron growth.

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66. (New) Use of antibodies reactive with isolated adrenomedullin peptide PAMP-20 (SEQ ID NO: 7) for regulating, lessening, or inhibiting the allergic response due to the degranulation of mast cells, comprising administering said antibodies in an amount effective to lessen or inhibit the degranulation of mast cells.

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67. (New) Use of isolated adrenomedullin peptide PAMP-20 (SEQ ID NO: 7) or antibodies reactive therewith for treating bacterial or fungal infections, comprising administering to a subject said peptide or antibodies in an amount effective to inhibit or prevent bacterial or fungal growth.

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68. (New) Use of isolated adrenomedullin peptide PAMP-20 (SEQ ID NO: 7) for facilitating the repair or healing of chafed skin, skin lesions, wounds, and surgical incisions, comprising applying said adrenomedullin peptides to the surface of the skin of a subject in an amount effective to facilitate the repair or healing.